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L1 1 CN1228447/PN

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ACCESSION NUMBER: 2000:428270 ZCAPLUS

DOCUMENT NUMBER: 133:18272

TITLE: Crosslinked polyacrylamide hydrogel for medical  
application and its preparing method

INVENTOR(S): Cao, Mengjun

PATENT ASSIGNEE(S): Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

INT. PATENT CLASSIF.:

MAIN: C08J003-075

SECONDARY: C08L033-26

CLASSIFICATION: 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 63

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1228447	A	19990915	CN 1999-116009	19990115 <--
CN 1068612	B	20010718		

ABSTRACT:

The raw material is composed of acrylamide 2.5-8, crosslinking agent 0.001-3.0, catalyst 0.001-4.00, accelerator 0.001-2.00, promotor 0.001-2.00, and water to 100%. The crosslinking agent is selected from N,N'-ethylenebisacrylamide or its homolog, and N,N'-diallyltartardiamide; the accelerator from NaHSO<sub>3</sub>, and Na metabisulfite; and the promotor from triethanolamine, triethylamine, and N,N'-ethylenediamine derivs. The process comprises dispersing the raw material in water, polymg. at 20-35.degree. for 10-25 h under bubbling N<sub>2</sub>, washing, soaking, extg., and dissolving in water to obtain 2.5-8.0% crosslinked polyacrylamide hydrogel.

SUPPL. TERM: crosslinked polyacrylamide hydrogel manuf medical  
application; ethylenebisacrylamide crosslinked  
polyacrylamide hydrogel; diallyltartardiamide crosslinked  
polyacrylamide hydrogel

INDEX TERM: Crosslinking catalysts  
(amine derivs. and sodium bisulfite and sodium  
metabisulfite; manuf. of crosslinked polyacrylamide

hydrogel for medical application in presence of)

INDEX TERM: Crosslinking agents  
(ethylenebisacrylamide and diallyltartardiamide; manuf.  
of crosslinked polyacrylamide hydrogel for medical  
application)

INDEX TERM: Hydrogels  
(manuf. of crosslinked polyacrylamide hydrogel for  
medical application)

INDEX TERM: 7631-90-5, Sodium bisulfite 7681-57-4, Sodium  
metabisulfite  
ROLE: CAT (Catalyst use); USES (Uses)  
(crosslinking accelerators; manuf. of crosslinked  
polyacrylamide hydrogel for medical application in  
presence of)

INDEX TERM: 2956-58-3, N,N'-Ethylenebisacrylamide 58477-85-3,  
N,N'-Diallyltartardiamide  
ROLE: MOA (Modifier or additive use); USES (Uses)  
(crosslinking agents; manuf. of crosslinked  
polyacrylamide hydrogel for medical application)

INDEX TERM: 102-71-6, Triethanolamine, uses 121-44-8, Triethylamine,  
uses  
ROLE: CAT (Catalyst use); USES (Uses)  
(crosslinking promoters; manuf. of crosslinked  
polyacrylamide hydrogel for medical application in  
presence of)

INDEX TERM: 31132-41-9P, Acrylamide-N,N'-ethylenebisacrylamide copolymer  
ROLE: IMF (Industrial manufacture); THU (Therapeutic use);  
BIOL (Biological study); PREP (Preparation); USES (Uses)  
(manuf. of crosslinked polyacrylamide hydrogel for  
medical application)

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FULL ESTIMATED COST		4.85	5.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	ENTRY	SINCE FILE SESSION	TOTAL
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FILE CONTAINS CURRENT INFORMATION.